

Patent claims

1. Ultrasonic shockwave head for lithotripsy, with a shockwave source (2) and an acoustic lens (6) for focusing of the ultrasonic shockwave generated by the shockwave source (2), on which lens (6) a bearing housing (8) for the shockwave source (2) is integrally molded as one piece.
2. Ultrasonic shockwave according to claim 1, in which the shockwave source (2) is annular and an external and an internal, approximately hollow-cylindrical wall part (12 or, respectively, 10) is integrally molded on the lens (6) as a bearing housing (8), which wall part (12 or, respectively, 10) is respectively provided on its inner surface or, respectively, its outer surface with an annular, circumferential section (20 or, respectively, 18) on which the annular shockwave source (2) at least indirectly rests with its outer or, respectively, inner edge.
3. Ultrasonic shockwave head according to claim 1 or 2, in which a chamber (26) is arranged between the lens (6) and the shockwave source (2).
4. Ultrasonic shockwave head according to any of the claims 1, 2 or 3, in which channels (40, 42) for conveyance of a fluid are molded into the bearing housing (8).
5. Ultrasonic shockwave head according to claim 4 in connection with claim 3, in which a channel (40) interconnects with the chamber (26).
6. Ultrasonic shockwave head according to claim 4, in which a channel (42) interconnects with a coupling space (16) located before the lens (6).
7. Ultrasonic shockwave head according to any of the preceding claims, in which the bearing housing (8) comprises an annular recess (44) annularly circulating on the outer surface for fluid-tight application of a coupling membrane.